

AG04-046C-PC.txt
SEQUENCE LISTING

<110> Agrinomics, LLC
 <120> GENERATION OF PLANTS WITH ALTERED OIL CONTENT
 <130> AG04-046C-PC
 <150> 60/530,828
 <151> 2003-12-17
 <160> 4
 <170> PatentIn version 3.2
 <210> 1
 <211> 1110
 <212> DNA
 <213> Arabidopsis thaliana
 <400> 1
 atggctgact cagtgccagg tcatgtcgcc ggcgagggtt tacagggttt ctctgtcgac 60
 gccgagtgca tcaagcagcg tgtcgacgag gttttacagt gggttgattc gcttgagcat 120
 aaactgaaag aagtggagga gttttactcg agcattggtg tctcaaactc tggctctatt 180
 ggtaaagata cagaaaaagg gagacatggt gtggggatta ggaagattca acaagaggct 240
 gcgcgtagag aagctgttgc tgctaaaaga atgcaggacc ttatgcgtca atttgaaca 300
 atctttcgtc agataactca gcataagtgc gcttggccgt ttatgcatcc tgtcaatggt 360
 gaaggctctt gtttgcatga ctactttgag gttattgaca agcctatgga cttcagcacg 420
 ataaaaaatc aaatggaggc taaggatggt accgggtaca aacatgtcat gcaaatttat 480
 gctgatatgc ggctagtgtt tgagaacgca atgaattata atgaagaaac aagtgatggt 540
 tactctatgg cgaaaaagtt actggaaaag tttgaggaga agtgggcaca ctttcttcca 600
 aaggttcaag aagaggagaa aatacgagag gaagaggaga agcaagcagc aaaggaggcg 660
 ctgctagcaa agaagcatc tcatatcaaa acaactagag aattggggaa tgagatttgc 720
 catgctaata acgagctgga gaagctaata cgtaaagttg tggaaagatg caggaaaatc 780
 acaattgagg agaagcgtaa tattggattg gcattgttaa aactgtcacc ggatgatcta 840
 cagaaagtgt tgggtatagt tgctcaggct aacccgagct ttcaacctag agcagaggaa 900
 gttagtattg agatggacat actggacgaa ccaacactat ggaggctaaa gttctttgtg 960
 aaggatgcgt tggataatgc aatgaagaag aagaaagaag aggagacaaa gactagagaa 1020
 ttgagtggag cacaaaagaa agaggtttcg aagaaacgaa atgcgactac aaagttagct 1080
 gagagggaaa cgaagcgggtc acgcatatga 1110
 <210> 2
 <211> 369
 <212> PRT
 <213> Arabidopsis thaliana
 <400> 2
 Met Ala Asp Ser Val Pro Gly His Val Ala Gly Gly Gly Leu Gln Gly

AG04-046C-PC.txt

1	5	10	15
Phe	Ser	Val	Asp
	20	Ala	Glu
Cys	Ile	Lys	Gln
	25	Arg	Val
Asp	Glu	Val	Leu
	30		
Gln	Trp	Val	Asp
	35	Ser	Leu
Glu	His	Lys	Leu
	40	Lys	Glu
Val	Glu	Glu	Phe
	45		
Tyr	Ser	Ser	Ile
	50	Gly	Val
Ser	Asn	Ser	Gly
	55	Ser	Ile
Gly	Lys	Asp	Thr
	60		
Glu	Lys	Gly	Arg
	65	His	Val
Val	Val	Gly	Ile
	70	Arg	Lys
Ile	Gln	Gln	Glu
	75	Ala	
Ala	Arg	Arg	Glu
	80	Ala	Val
Ala	Ala	Lys	Arg
	85	Met	Gln
Asp	Leu	Met	Arg
	90		
Gln	Phe	Gly	Thr
	100	Ile	Phe
Arg	Gln	Ile	Thr
	105	Gln	His
Lys	Cys	Ala	Trp
	110		
Pro	Phe	Met	His
	115	Pro	Val
Asn	Val	Glu	Gly
	120	Leu	Gly
Leu	His	Asp	Tyr
	125		
Phe	Glu	Val	Ile
	130	Asp	Lys
Pro	Met	Asp	Phe
	135	Ser	Thr
Ile	Lys	Asn	Gln
	140		
Met	Glu	Ala	Lys
	145	Asp	Gly
Thr	Gly	Tyr	Lys
	150	His	Val
Met	Gln	Ile	Tyr
	155		
Ala	Asp	Met	Arg
	160	Leu	Val
Phe	Glu	Asn	Ala
	165	Met	Asn
Tyr	Asn	Glu	Glu
	170		
Thr	Ser	Asp	Val
	175	Tyr	Ser
Met	Ala	Lys	Lys
	180	Leu	Leu
Glu	Lys	Phe	Glu
	185		
Glu	Lys	Trp	Ala
	190	His	Phe
Leu	Pro	Lys	Val
	195	Gln	Glu
Glu	Glu	Glu	Lys
	200		
Arg	Glu	Glu	Glu
	205	Lys	Gln
Ala	Ala	Lys	Glu
	210	Ala	Leu
Leu	Ala	Lys	
	215		
Glu	Ala	Ser	His
	220	Ile	Lys
Thr	Thr	Arg	Glu
	225	Leu	Gly
Asn	Glu	Ile	Cys
	230		
His	Ala	Asn	Asp
	235	Glu	Leu
Glu	Lys	Leu	Met
	240	Arg	Lys
Val	Val	Glu	Arg
	245		
Cys	Arg	Lys	Ile
	250	Thr	Ile
Glu	Glu	Lys	Arg
	255	Asn	Ile
Gly	Leu	Ala	Leu
	260		
Leu	Lys	Leu	Ser
	265	Pro	Asp
Asp	Leu	Gln	Lys
	270	Val	Leu
Gly	Ile	Val	Ala

AG04-046C-PC.txt

275

280

285

Gln Ala Asn Pro Ser Phe Gln Pro Arg Ala Glu Glu Val Ser Ile Glu
 290 295 300

Met Asp Ile Leu Asp Glu Pro Thr Leu Trp Arg Leu Lys Phe Phe Val
 305 310 315 320

Lys Asp Ala Leu Asp Asn Ala Met Lys Lys Lys Lys Glu Glu Glu Thr
 325 330 335

Lys Thr Arg Glu Leu Ser Gly Ala Gln Lys Lys Glu Val Ser Lys Lys
 340 345 350

Arg Asn Ala Thr Thr Lys Leu Ala Glu Arg Lys Thr Lys Arg Ser Arg
 355 360 365

Ile

<210> 3
 <211> 965
 <212> DNA
 <213> Arabidopsis thaliana

<400> 3
 gccttcacgc gcggcacaac ctgttgctta tctccgatct actccggcga acggcgaaat 60
 tcgagctatg gagaatctaa acggccttagt tcctgacatc cctatacaag agcagaaaga 120
 caatgctact gcttctgaaa atttcggctcg aagtgttgat gaaatggttg ggaagggtga 180
 tcagattgag cagagactga atgaggttga gcatttctat tccaatacta gtaaaaaaca 240
 atcaaacacg ccaagagggtg gctctattct gaaagacaaa gagaaacaga tgtctagctt 300
 tagaaggcgg cagcaggatg catcacgtag agaagcagct gggtccagga gaatgcaaga 360
 acttatgcgc caatttggtg ctatattacg tcagatcact cagcacaagt gggcagaacc 420
 ttttatggaa cctgtggatg tcaaggggtct tggattacac gattattttg aggttattga 480
 gaagcctatg gacttcagta ctatcaaaaa caagatggaa gcaaaggatg gttctggcta 540
 taagcatgtc cgagagatat gtgctgacgt gaggctaata tttaagaatg cgatgaaata 600
 caacgaggaa agggatgacg ttcattgtaaat ggcgaaaacc ttgttgggaa aattcgagga 660
 gaaatggttg cagcttttgc ccaaagttga tgaagaggaa aaacggcgaa aggaagagga 720
 agcagaagcc caacaggata tgcagctcgc tcaagaggct gctcatgcaa aaatggcaaa 780
 agatttaact attgagcttg atgaggtgga catgcaactg gaagaactca gggacttggt 840
 gcttcagaaa tgcagaaaga tttcaacgga agacaggaaa caacttggga atgcgctcac 900
 taagctgtct cctgacgatc ttaataaagc actattgatt gtggcacaga atgacacctac 960
 ttttc 965

AG04-046C-PC.txt

<210> 4
 <211> 1290
 <212> DNA
 <213> *Arabidopsis thaliana*

<400> 4
 cgaggggcg caatggaggg agcgtggccc catccggcgc cgatggagcc gaccaccgcc 60
 gcggatgggc ctcaagtgtc ggaggtgaac tcgttccggc gccaggtcga cgacctcctc 120
 tccaagaccg acgtgctgga gaagaggggtg aacgaggtgg tagggttcta caattccaag 180
 aagcacagca gtggaggccg caaggctggc ggcaggtacg cggaaaacgg tgccagggac 240
 agccacggca atgggatgcc cgacctcatg cgccagtttg ccggtatcat tcgccagatt 300
 acatctcatg aatgggcaca gccgtttttg caaccggtag acgtcgtagg tcttcaactt 360
 gatgactatc accagattat aacaaaacct atggatttct cgaccatccg aaacaaaatg 420
 gaaggggaagg aaagtaccac atataacagt gtccgagaaa tatattctga tgttagatta 480
 gtttttacca atgcaatgaa gtacaatgtt gaaggtcacc ctgttaacat aatggccaag 540
 ttcctactcg agagatttga ggagaaatgg cttcaccttc tccctgaagt tgagaacgag 600
 gaaaggggaaac gggaggaacc aaatgatgct ccaaccataa gcatttctcc ggaagctgca 660
 attgcaaaat tagctgaaga tactggtaat gagctgaatg agattaataa gcagctggag 720
 gagctccaga aaatggtggt tcagagatgc aggaaaatga cgacggacga gaagagaaaa 780
 ctcggcgcag gtctttgcc aattgtctcca gaagatctta acaaggcgct agagttggtc 840
 gcgcaagaca atcctagctt ccaaactaca gctgaagaag tggaccttga catggatgct 900
 cagagcgaga cgacctctg gaggtgaag ttctttgtga ggaagcatt ggaacaacag 960
 gcgaatgtag gcgtagtggc ctgtggcaag atcgatgaaa acacgaagag gagccgcgac 1020
 atgtacaatg ctctagccaa gaccgtttcg aaacggatta agagataacc ttagcggctc 1080
 ggccctttctg atggttcatg gtatttctgt agaaaatagg gccatgttct cccttggtg 1140
 aagacatgtt gtatatatac gaagatgaat ctgcactaag atatgcttgg tcgcacccgg 1200
 tctcatgtgg catgggtagc atgctattgg tagctatgta aaataaagag caatgttgaa 1260
 cacctctgag aaacaagaat tattccttga 1290